



Software Development and Deployment

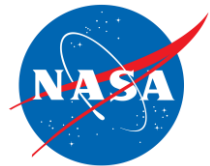
PDS Management Council Face-to-Face
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Topics

- Overview
- Deployment Status
- Product-Level Search
- Reporting
- Build 5a
- Next Steps



Overview

- Build 4b
 - Deployed to EN operations in April 2014.
 - A point build was completed in June 2014.
 - Added support for capturing unit designations from the product labels.
 - Node deployments underway since last MC F2F.
- Build 5a
 - Delivery to Integration and Test scheduled for September 30, 2014.



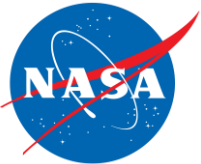
Build 4b Components

Tools

- Ingest
 - Harvest Tool
 - Catalog Tool
- Preparation
 - Generate Tool
 - PDS4 Tools
 - Transform Tool
 - Validate Tool

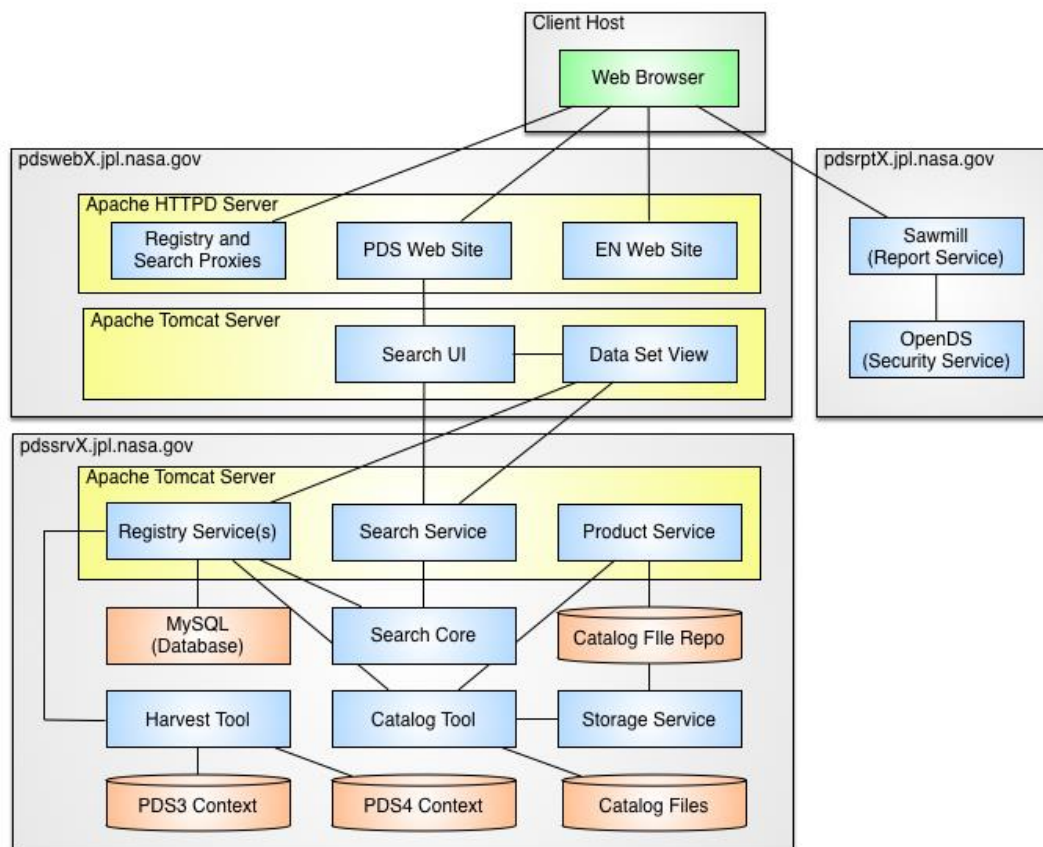
Services

- Registry
 - Registry Core/Client
 - Registry Service
 - Registry User Interface
- Search
 - Search Core
 - Search Service
 - Search User Interface
- Transport Service
- Report Service



Build 4b

EN Deployment



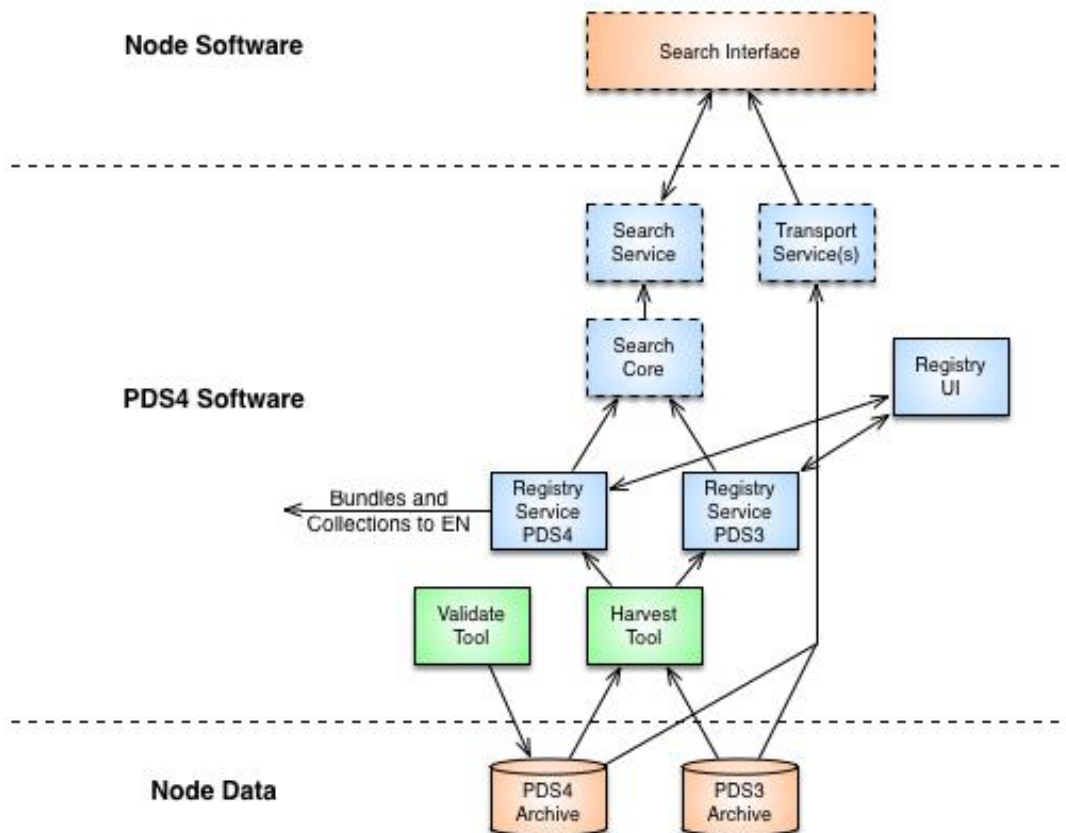


Node Deployment Status

| Node | Status | Comment |
|--------------------|--------------------|--|
| Atmospheres | Build 4b Installed | Actively working with Node to exercise PDS4 search scenarios. |
| Geosciences | Build 4a Installed | Plan to work with the Node to upgrade the installation. |
| Imaging - JPL | Build 4b Installed | Actively working with Node to exercise PDS3 registration scenarios. |
| Imaging - USGS | Build 4b Installed | |
| NAIF | Build 3a Installed | Started working with the Node to upgrade the installation. |
| PPI | Build 4b Installed | |
| Rings | Build 4b Installed | Will continue to work with the Node to resolve installation issues. |
| Small Bodies - UMD | Build 4b Installed | Actively working with Node to exercise PDS4 search scenarios. |
| Small Bodies - PSI | Build 4b Installed | Installed in test environment. Plan to purchase new hardware for operations. |



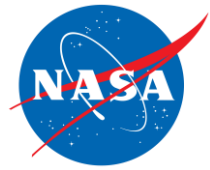
Nominal Node Deployment





Product-Level Search

- Working with Atmospheres and Small Bodies on exercising PDS4 software for product-level search.
- For Atmospheres, focusing on Product_Update and support for indexes.
- For Small Bodies, focusing on support for Primary_Result_Summary and facet-based search.



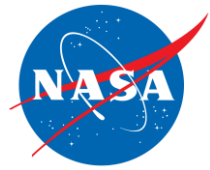
Reporting

- Sawmill software installed at the EN.
 - Finally has a permanent home server.
- Utilizing the service for web metric reports.
 - Generating EN and Imaging reports since the last MC F2F.
- Have started testing the pulling of Node web logs for service population.
 - Targeting Build 5a with multi-protocol support.
- Delivery of Build 5a should finally trigger our active use of the service.



Build 5a

- Support data model changes.
 - Product_Update, Query Models, etc.
- Additional features for validation.
 - Focused on bundle and collection integrity.
- Better integrate search results with available tools and services.
- Get Tracking Service development underway.
 - This is where archive status and certification status will reside for PDS4 bundles/collections.



Next Steps

- Continue to work with the Nodes on Report Service population.
- Continue to work with the Nodes to deploy the PDS4 software locally and integrate it into their environments.
 - This includes population of the registries.
- Build 5b Development
 - Focus on product-level support including content validation, search, transformation and visualization.

Questions/Comments